

**IN THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A data processing method performed by means to be authenticated and authenticating means, the authenticating means holding key data, the method~~providing first authentication use data used for authentication by means to be authenticated to the means to be authenticated when authenticating means holding key data uses the key data designated by the means to be authenticated holding the first authentication use data for encryption to generate second authentication use data, uses the second authentication use data to authenticate with the means to be authenticated, and performs processing related to the key data conditional on confirming that the first authentication use data and the second authentication use data are the same due to the authentication,~~ comprising:

~~a first step of generating the first authentication use data by performing first encryption at the authenticating means using the key data related to the processing permitted to the means to be authenticated among processing relating to the authenticating means to generate first authenticating use data; and performing the encryption, and~~

~~a second step of providing the first authentication use data generated in the first step and key designation data designating the key data used in the first step to the means to be authenticated;~~

~~comparing the first authentication use data with second authentication use data; and~~

~~executing the processing related to the key data in the authenticating means when the comparison determines that the~~

first authentication use data and the second authentication use data are the same.

2. (currently amended) A data processing method as set forth in claim 1, wherein the ~~second~~providing step ~~comprises a step of~~includes writing the first authentication use data and the key designation data in an integrated circuit used by the means to be authenticated.

3. (currently amended) A data processing method as set forth in claim 1, wherein the step of performing the first encryption ~~step comprises a step of~~includes generating the first authentication use data ~~by using~~ the key data related to a function of the authenticating means permitted by the means to be authenticated or an access to data held by the authenticating means.

4. (currently amended) A data processing method as set forth in claim 1, wherein

the step of performing the first encryption ~~step comprises of a step of~~includes generating the first authentication use data by encrypting authentication use data, generated ~~by using~~ first key data related to the processing permitted to the means to be authenticated by a first user, ~~by using~~ second key data related to the processing permitted to the means to be authenticated by a second user received authority by the first user, and

the ~~second~~providing step ~~comprises a step of~~includes providing the key designation data designating the second key data ~~further to~~ the means to be authenticated.

5. (currently amended) A data processing method as set forth in claim 4, wherein the step of performing the first

~~encryption includes~~~~step comprises a step of~~ using first tamper-proofing key data managed by the first user ~~further to encrypt authentication use data generated by using the first key data to produce first encrypted authentication use data, encrypting the first encrypted authentication use data generated by the encryption by using the second key data to produce second encrypted authentication use data, and encrypting the second encrypted authentication use data obtained by the encryption using the second key data by using~~ second tamper-proofing key data distributed to the second user by the first user to generate the first authentication use data.

6. (currently amended) A data processing method as set forth in claim 1, wherein the step of performing the first encryption ~~step comprises a step of~~includes generating the first authentication use data ~~by using a plurality of the key data related to a plurality of processing relating to the authenticating means,~~ respectively.

7. (currently amended) A data encryption processing method as set forth in claim 6, wherein the step of performing the first encryption ~~step comprises a step of~~includes generating the first authentication use data ~~by using the key data related to a plurality of processing including the a function of the authenticating means permitted by the means to be authenticated and the an access to data held by the authenticating means,~~ respectively.

8. (currently amended) A data processing method as set forth in claim 3, wherein the first authentication use data is generated ~~by using the single key data related to an access to a plurality of data modules~~ when the authenticating means holds a plurality of the data modules as the data.

9. (currently amended) A data processing method as set forth in claim 1, further comprising:

~~a third step by which the means to be authenticated~~  
providesing the key designation data from the means to be  
authenticated to the authenticating means; and

~~a fourth step by which the performing second~~  
encryption at the authenticating means generates the second  
authentication use data with the predetermined generation method  
by using the designated key data to generate the second  
authentication use data designated by the key designation data  
received in the third step;

~~a fifth step by which the means to be authenticated~~  
~~uses the first authentication use data and the authenticating~~  
~~means uses the second authentication use data generated in the~~  
~~fourth step, authentication is performed, and~~

~~a sixth step by which the authenticating means~~  
~~executes processing related to the key data in response to an~~  
~~indication from the means to be authenticated when the~~  
~~authenticating means judges that the first authentication use~~  
~~data and the second authentication use data are the same by the~~  
~~authentication in the fifth step.~~

10. (currently amended) A data processing method as set forth in claim 1, wherein the step of performing the first encryption step ~~comprises a step of~~ includes generating the first authentication use data ~~by using the key data to encrypt~~ predetermined data.

11. (currently amended) A data processing method as set forth in claim 1,

~~further comprising:~~

~~\_\_\_\_\_ a third step of specifying the key data corresponding to a service designated by the means to be authenticated based on correspondence data of the service that is a use target of the means to be authenticated and a single or a plurality of the key data related to processing relating to the authenticating means corresponding to the service, wherein~~

~~the step of performing the first encryption step comprises a step of includes generating the first authentication use data by using the key data specified in the third specifying step.~~

12. (currently amended) A data processing method as set forth in claim 11, wherein the third specifying step ~~comprises a step of includes~~ providing a screen making the means to be authenticated designate the service.

13. (currently amended) A program for causing executed by a data processing device to execute an authentication process between an authenticating means holding key data and a means to be authenticated ~~providing first authentication use data used for authentication by means to be authenticated to the means to be authenticated when authenticating means holding key data uses the key data designated by the means to be authenticated holding the first authentication use data for encryption to generate second authentication use data, uses the second authentication use data to authenticate with the means to be authenticated, and performs processing related to the key data conditional on confirming that the first authentication use data and the second authentication use data are the same due to the authentication, the authentication process comprising:~~

~~a first step of generating the first authentication use data by performing first encryption using the key data related to the processing permitted to the means to be~~

authenticated among processing relating to the authenticating means to generate first authentication use data;~~for the encryption, and~~

~~a second step of providing the first authentication use data generated in the first step and key designation data designating the key data used in the first step to the means to be authenticated;~~

comparing the first authentication use data with second authentication use data; and

executing the processing related to the key data in the authenticating means when the comparison determines that the first authentication use data and the second authentication use data are the same.

14. (currently amended) A program as set forth in claim 13, wherein the step of performing the first encryption step ~~comprises a step of~~includes generating the first authentication use data ~~by using the key data related to a function of the authenticating means permitted by the means to be authenticated or an access to data held by the authenticating means.~~

15. (currently amended) A data processing device for providing first authentication use data ~~used for authentication by means to be authenticated to the means to be authenticated~~ when authenticating means holding key data uses the key data designated by the means to be authenticated ~~holding the first authentication use data for encryption to generate second authentication use data, uses the second authentication use data to authenticate in an authentication process with the means to be authenticated, and performs processing related to the key data when conditional on the authentication confirming that the first authentication use data and the second authentication use data are the same,~~ the data processing device comprising:

means to be authenticated;

~~a first means~~ for generating the first authentication use data by encryption using ~~the key data related to the~~ processing permitted to the means to be authenticated among processing relating to the authenticating means ~~for the encryption;~~ and

~~a second means~~ for providing the first authentication use data ~~generated in the first means and key designation data designating the key data used~~ to generate the first authentication use data ~~in the first means~~ to the means to be authenticated.